EXPRESS MAIL NO. EV339260405

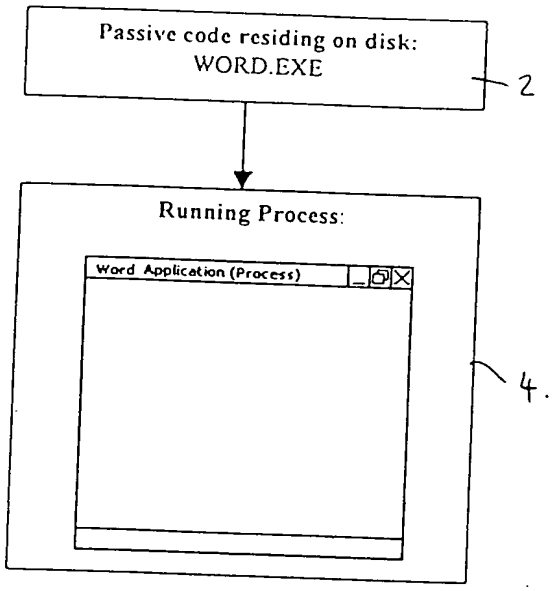


Figure 1

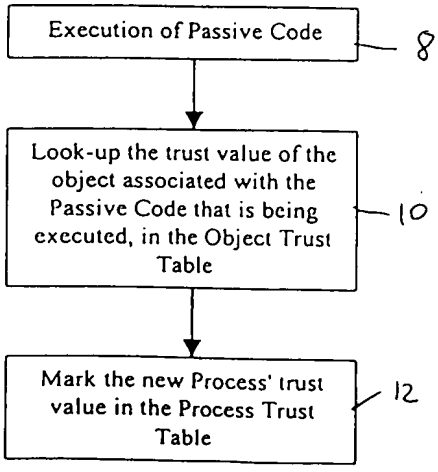


FIG 2

FIG_3

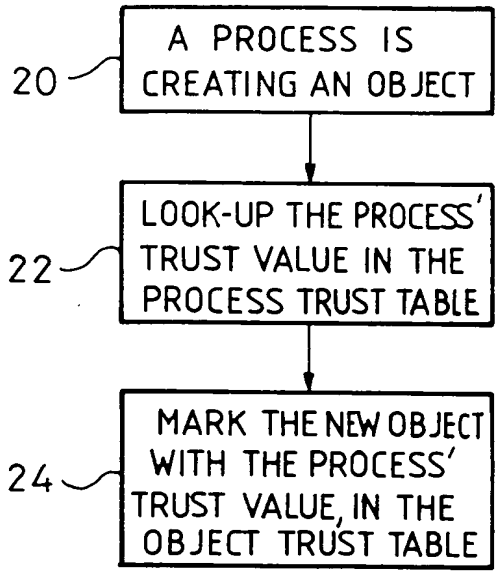
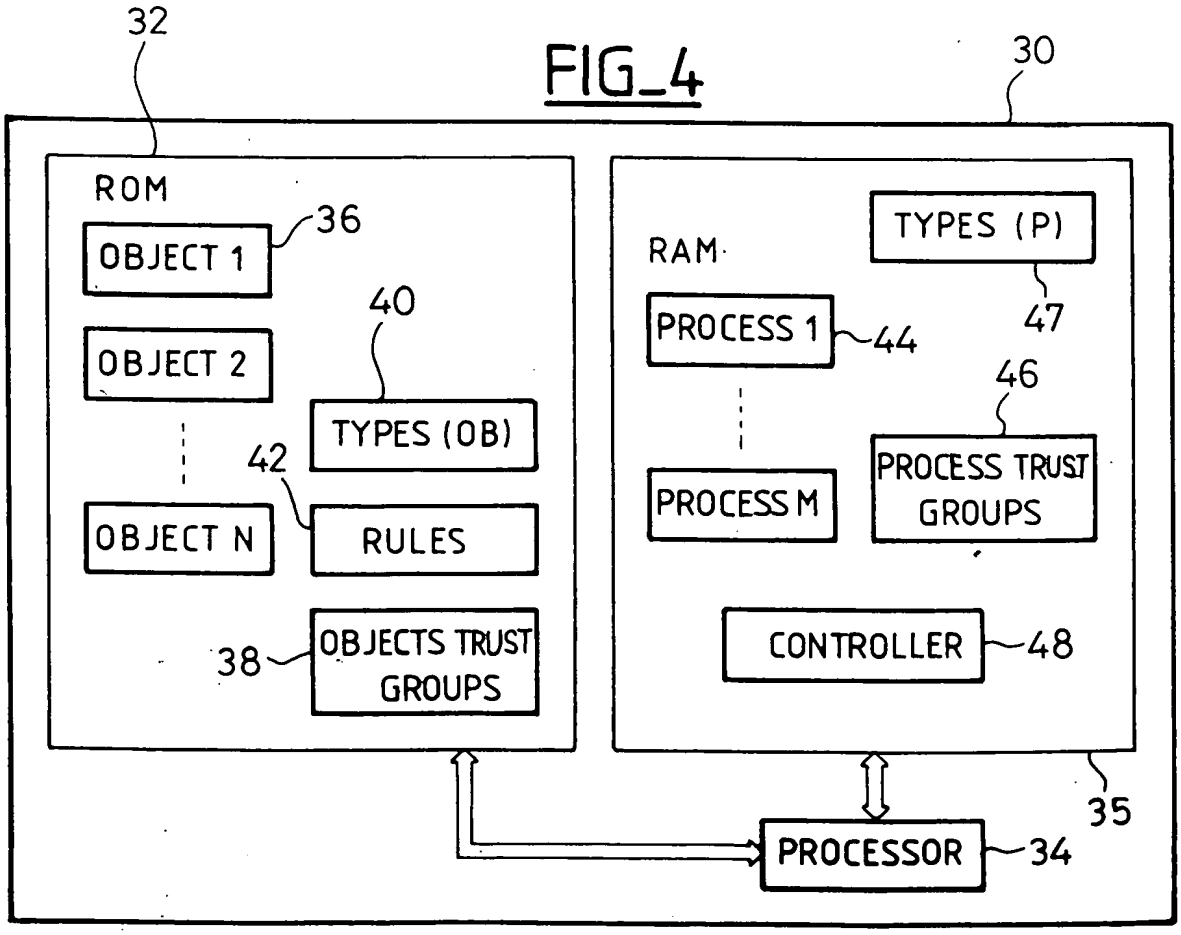

A PROCESS IS CREATING AN OBJECT
20
LOOK-UP THE PROCESS' TRUST VALUE IN THE PROCESS TRUST TABLE
22
MARK THE NEW OBJECT WITH THE PROCESS' TRUST VALUE, IN THE OBJECT TRUST TABLE
24

FIG_4


32
30
ROM
OBJECT 1
36
OBJECT 2
40
TYPES (OB)
42
OBJECT N
RULES
38
OBJECTS TRUST GROUPS
RAM
TYPES (P)
47
PROCESS 1
44
46
PROCESS M
PROCESS TRUST GROUPS
CONTROLLER
48
35
PROCESSOR
34

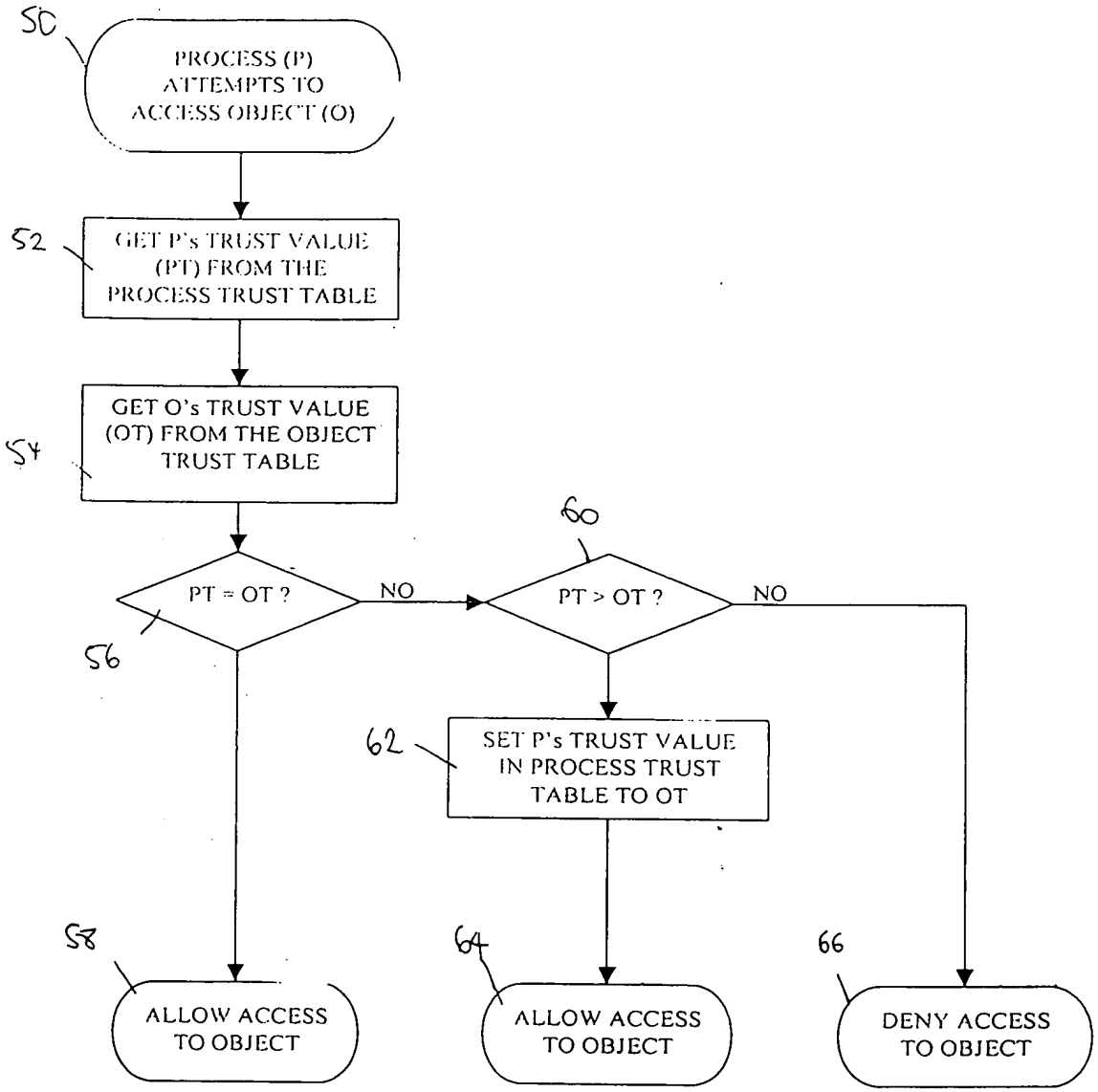

50
PROCESS (P) ATTEMPTS TO ACCESS OBJECT (O)
52
GET P's TRUST VALUE (PT) FROM THE PROCESS TRUST TABLE
54
GET O's TRUST VALUE (OT) FROM THE OBJECT TRUST TABLE
60
PT = OT ?
NO
PT > OT ?
NO
56
62
SET P's TRUST VALUE IN PROCESS TRUST TABLE TO OT
58
64
66
ALLOW ACCESS TO OBJECT
ALLOW ACCESS TO OBJECT
DENY ACCESS TO OBJECT

FIG 5

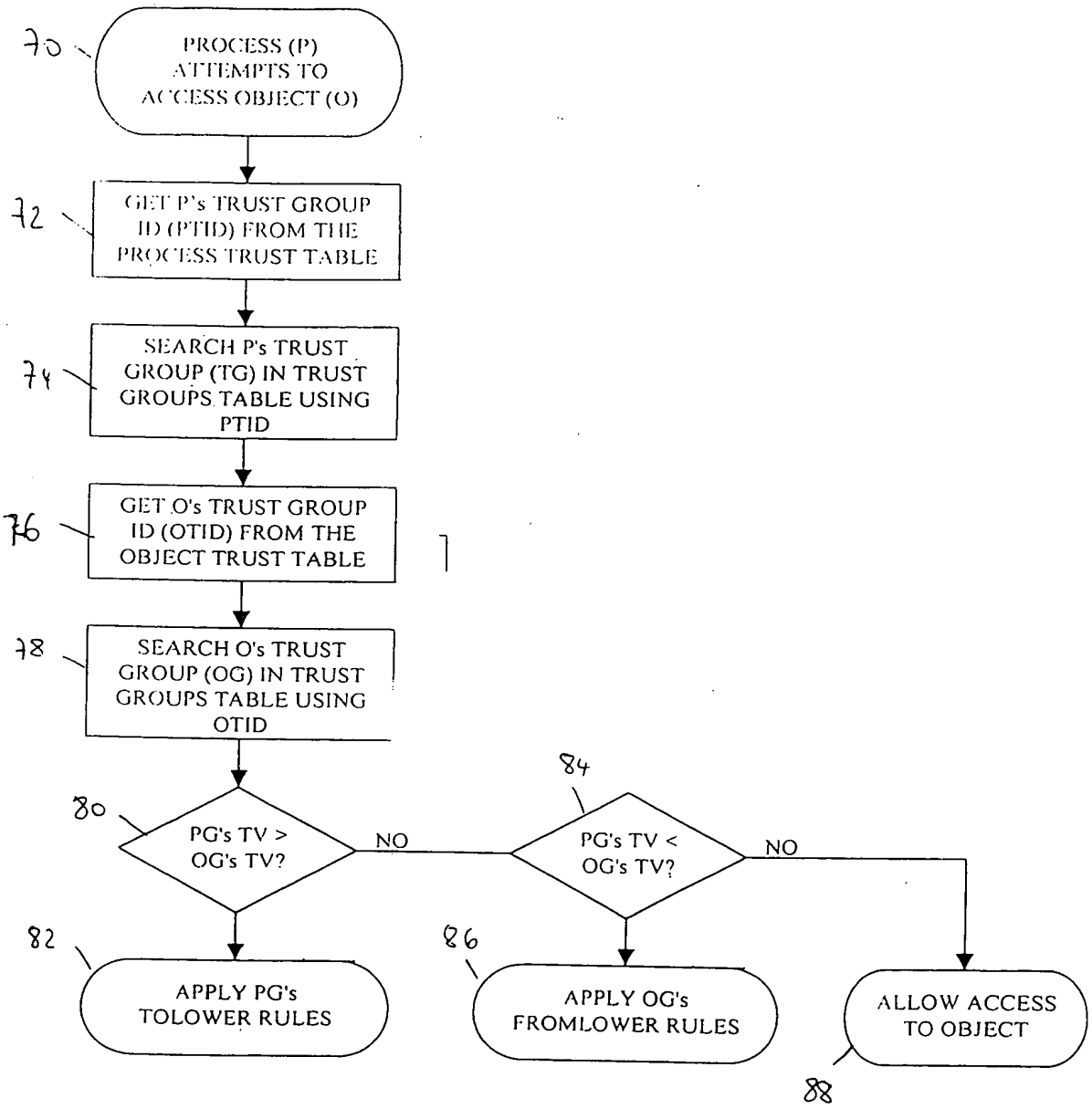

70
PROCESS (P) ATTEMPTS TO ACCESS OBJECT (O)
72
GET P's TRUST GROUP ID (PTID) FROM THE PROCESS TRUST TABLE
74
SEARCH P's TRUST GROUP (TG) IN TRUST GROUPS TABLE USING PTID
76
GET O's TRUST GROUP ID (OTID) FROM THE OBJECT TRUST TABLE
78
SEARCH O's TRUST GROUP (OG) IN TRUST GROUPS TABLE USING OTID
80
PG's TV > OG's TV?
NO
84
PG's TV < OG's TV?
NO
82
APPLY PG's TOLOWER RULES
86
APPLY OG's FROMLOWER RULES
ALLOW ACCESS TO OBJECT
88

FIG 6

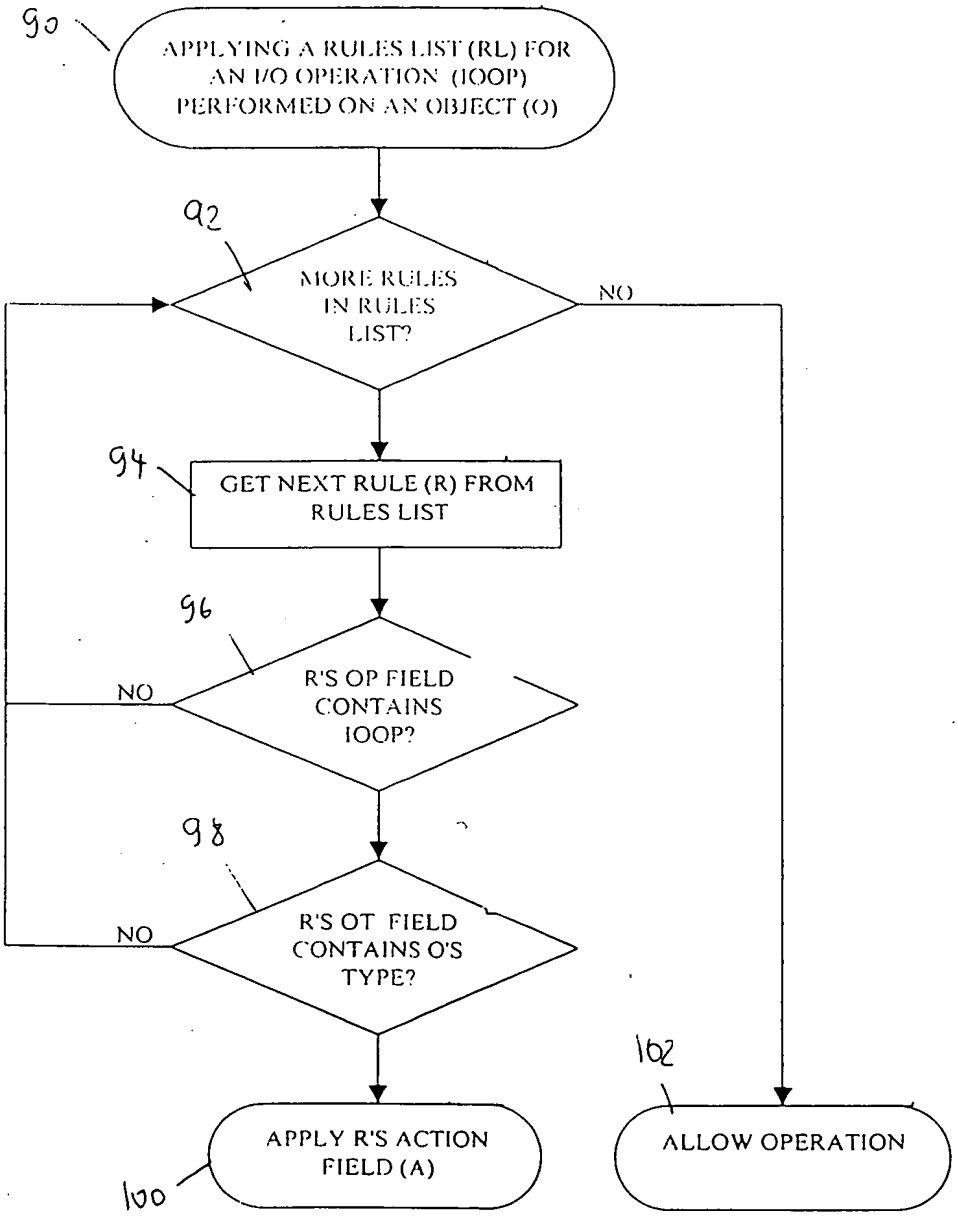


Figure 10

FIG 7